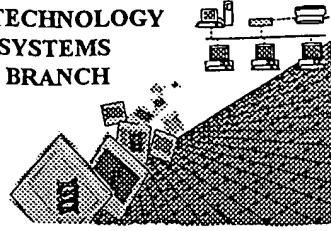


1645

BIOTECHNOLOGY
SYSTEMS
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P#17

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

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Application Serial Number: 09/597,796BSource: 1600Date Processed by STIC: 12/27/2002

TECH CENTER 1600/2C

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212/235, 04-07**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216/07, 12-30****PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)****PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)****TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER****VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:****<http://www.uspto.gov/web/offices/pac/checker>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
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PATENT APPLICATION: US/09/597,796B

DATE: 12/27/2002

TIME: 15:07:36

JAN 06 2003

Input Set : A:\14058905.app

Output Set: N:\CRF4\12272002\I597796B.raw

TECH CENTER 1600/29

3 <110> APPLICANT: Skeiky, Yasir
 4 Reed, Steven
 5 Alderson, Mark
 6 Corixa Corporation
 8 <120> TITLE OF INVENTION: Fusion Proteins of Mycobacterium Tuberculosis
 10 <130> FILE REFERENCE: 014058-009050US
 12 <140> CURRENT APPLICATION NUMBER: US 09/597,796B
 13 <141> CURRENT FILING DATE: 2000-06-20
 15 <150> PRIOR APPLICATION NUMBER: US 09/056,556
 16 <151> PRIOR FILING DATE: 1998-04-07
 18 <150> PRIOR APPLICATION NUMBER: US 09/223,040
 19 <151> PRIOR FILING DATE: 1998-12-30
 21 <150> PRIOR APPLICATION NUMBER: WO PCT/US99/07717
 22 <151> PRIOR FILING DATE: 1999-04-07
 24 <150> PRIOR APPLICATION NUMBER: US 09/287,849
 25 <151> PRIOR FILING DATE: 1999-04-07
 27 <150> PRIOR APPLICATION NUMBER: US 60/158,338
 28 <151> PRIOR FILING DATE: 1999-10-07
 30 <150> PRIOR APPLICATION NUMBER: US 60/158,425
 31 <151> PRIOR FILING DATE: 1999-10-07
 33 <160> NUMBER OF SEQ ID NOS: 30
 35 <170> SOFTWARE: PatentIn Ver. 2.1
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 38 <211> LENGTH: 588
 39 <212> TYPE: DNA
 40 <213> ORGANISM: Mycobacterium tuberculosis
 42 <220> FEATURE:
 43 <223> OTHER INFORMATION: Ra35, N-terminus of MTB32A (TbRa35FL)
 45 <220> FEATURE:
 46 <221> NAME/KEY: CDS
 47 <222> LOCATION: (1)..(588)
 48 <223> OTHER INFORMATION: Ra35
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Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/597,796B

DATE: 12/27/2002
TIME: 15:07:36

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Output Set: N:\CRF4\12272002\I597796B.raw

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66 <213> ORGANISM: Mycobacterium tuberculosis
68 <220> FEATURE:
69 <223> OTHER INFORMATION: Ra35, N-terminus of MTB32A (TbRa35FL)
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73 1 5 10 15
74 Pro Leu Asp Pro Ser Ala Met Val Ala Gln Val Gly Pro Gln Val Val
75 20 25 30
76 Asn Ile Asn Thr Lys Leu Gly Tyr Asn Asn Ala Val Gly Ala Gly Thr
77 35 40 45
78 Gly Ile Val Ile Asp Pro Asn Gly Val Val Leu Thr Asn Asn His Val
79 50 55 60
80 Ile Ala Gly Ala Thr Asp Ile Asn Ala Phe Ser Val Gly Ser Gly Gln
81 65 70 75 80
82 Thr Tyr Gly Val Asp Val Val Gly Tyr Asp Arg Thr Gln Asp Val Ala
83 85 90 95
84 Val Leu Gln Leu Arg Gly Ala Gly Gly Leu Pro Ser Ala Ala Ile Gly
85 100 105 110
86 Gly Gly Val Ala Val Gly Glu Pro Val Val Ala Met Gly Asn Ser Gly
87 115 120 125
88 Gly Gln Gly Gly Thr Pro Arg Ala Val Pro Gly Arg Val Val Ala Leu
89 130 135 140
90 Gly Gln Thr Val Gln Ala Ser Asp Ser Leu Thr Gly Ala Glu Glu Thr
91 145 150 155 160
92 Leu Asn Gly Leu Ile Gln Phe Asp Ala Ala Ile Gln Pro Gly Asp Ser
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96 Ala Ala Ser
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111 <223> OTHER INFORMATION: n = g, a, c or t
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116 <223> OTHER INFORMATION: n = g, a, c or t
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/597,796B

DATE: 12/27/2002
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Input Set : A:\14058905.app
Output Set: N:\CRF4\12272002\I597796B.raw

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 122 ggccggcccg ccggcctgt cgcaaggaccg gttcggccac ttccccgcg tgccccctcg 240
 123 cccgtccgcg atggtcgccc aagtggcc acagggtgtc aacatcaaca ccaaactggg 300
 124 ctacaacaac gccgtggcg ccgggaccgg catcgcatc gatccaaacg gtgtcgtgct 360
 125 gaccaacaac cacgtgatcg cgggcgcac cgacatcaat gcgttcaagcg tcggctccgg 420
 126 ccaaacc tac ggcgtcgatg tggctggta tgaccgcacc caggatgtcg cgtgtctgca 480
 127 gctgcgcgtt gccgggtggcc tgccgtcgcc ggcgtcggt ggccggctcg, cggttggta 540
 128 gcccgtcgtc gcatgggca acagcggtgg gcaaggccgaa acgcccgtg cgtgtccctgg 600
 129 cagggtggtc ggcgtcgcc aaaccgtgca ggcgtcgat tcgctgaccg gtgcgcagaaga 660
 130 gacattgaac ggggtgatcc agttcgatgc cgcaatccag cccggtgatt cggggccggcc 720
 131 cgtcgtaac ggcctaggac aggtggtcgg tatgaacacg gccgcgtccg ataacttcca 780
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 133 ccaaataccg tccgggtgggg ggtcaccac cgttcatatc gggcctaccg ctttcctcg 900
 134 cttgggtgtt gtcgacaaca acggcaacgg cgacacgagtc caacgcgtgg tcggaagcgc 960
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 137 ctcggtaac tggcaaacca agtcggcggt caccgtatca gggAACGTGA CATTGGCCG 1140
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 147 aatcacacct cggagtgcga cccctggtt caggagtccc ggcgcgaccc agacggaccg 1740
 148 tacgggtact attacgtgtg gacgcacacc agcgacgct acaccgacgc cccggatcatc 1800
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 156 <213> ORGANISM: Mycobacterium tuberculosis
 158 <220> FEATURE:
 159 <223> OTHER INFORMATION: MTB32A (TbRa35FL) protein
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 165 20 25 30
 166 Ala Pro Pro Ala Leu Ser Gln Asp Arg Phe Ala Asp Phe Pro Ala Leu
 167 35 40 45
 168 Pro Leu Asp Pro Ser Ala Met Val Ala Gln Val Ala Pro Gln Val Val
 169 50 55 60
 170 Asn Ile Asn Thr Lys Leu Gly Tyr Asn Asn Ala Val Gly Ala Gly Thr
 171 65 70 75 80
 172 Gly Ile Val Ile Asp Pro Asn Gly Val Val Leu Thr Asn Asn His Val

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/597,796B

DATE: 12/27/2002

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Output Set: N:\CRF4\12272002\I597796B.raw

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 174 Ile Ala Gly Ala Thr Asp Ile Asn Ala Phe Ser Val Gly Ser Gly Gln
 175 100 105 110
 176 Thr Tyr Gly Val Asp Val Val Gly Tyr Asp Arg Thr Gln Asp Val Ala
 177 115 120 125
 178 Val Leu Gln Leu Arg Gly Ala Gly Gly Leu Pro Ser Ala Ala Ile Gly
 179 130 135 140
 180 Gly Gly Val Ala Val Gly Glu Pro Val Val Ala Met Gly Asn Ser Gly
 181 145 150 155 160
 182 Gly Gln Gly Gly Thr Pro Arg Ala Val Pro Gly Arg Val Val Ala Leu 10
 183 165 170 175
 184 Gly Gln Thr Val Gln Ala Ser Asp Ser Leu Thr Gly Ala Glu Glu Thr
 185 180 185 190
 186 Leu Asn Gly Leu Ile Gln Phe Asp Ala Ala Ile Gln Pro Gly Asp Ser
 187 195 200 205
 188 Gly Gly Pro Val Val Asn Gly Leu Gly Gln Val Val Gly Met Asn Thr
 189 210 215 220
 190 Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln/Gly Phe Ala 75
 191 225 230 235 240
 192 Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln/Ile Arg Ser Gly
 193 245 250 255 260
 194 Gly Gly Ser Pro Thr Val His/Ile Gly Pro Thr/Ala Phe Leu Gly Leu 110
 195 260 265 270
 196 Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val Val 125
 197 275 280 285
 198 Gly Ser Ala Pro Ala Ala Ser Leu Gly/Ile Ser Thr Gly Asp Val Ile
 199 290 295 300 305
 200 Thr Ala Val Asp Gly Ala Pro/Ile Asn Ser/Ala Thr/Ala Met Ala Asp
 201 305 310 315 320
 202 Ala Leu Asn Gly His His Pro/Gly Asp Val/Ile Ser/Val Asn Trp Glu 335
 203 325 330 335 340
 204 Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu Gly
 205 340 345 350
 206 Pro Pro Ala
 207 355
 210 <210> SEQ ID NO: 5
 211 <211> LENGTH: 447
 212 <212> TYPE: DNA
 213 <213> ORGANISM: Mycobacterium tuberculosis
 215 <220> FEATURE:
 216 <223> OTHER INFORMATION: MTBRA12 C-terminus of MTB32A (Ra35FL)
 218 <400> SEQUENCE: 5
 219 cggtatgaac acggccgcgt ccgataactt ccagctgtcc cagggtgggc agggattcgc 60
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 221 caccgttcat atcgggccta ccgccttcct cggcttgggt gttgtcgaca acaaacggcaa 180
 222 cggcgacacga gtccaaacgcg tggtcggag cgctccggcg gcaagtctcg gcacatctccac 240
 223 cggcgacgtg atcaccgcgg tcgacggcgc tccgatcaac tcggccaccc cgatggcgaa 300
 224 cgcgttaac gggcatcatc ccggtgacgt catctcggtg aactggaaaa ccaagtccgg 360
 225 cggcacgcgt acagggAACG tgacattggc cgagggaccc ccggcctgat ttcgtcgygg 420

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/597, 796B

DATE: 12/27/2002
TIME: 15:07:36

Input Set : A:\14058905.app
Output Set: N:\CRF4\12272002\I597796B.raw

226 ataccacccg ccggccggcc aatttga 447
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 230 <211> LENGTH: 132
 231 <212> TYPE: PRT
 232 <213> ORGANISM: Mycobacterium tuberculosis
 234 <220> FEATURE:
 235 <223> OTHER INFORMATION: MTBRA12 C-terminus of MTB32A (Ra35FL)
 237 <400> SEQUENCE: 6
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 241 20 25 30
 242 Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly
 243 35 40 45
 244 Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val
 245 50 55 60
 246 Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val
 247 65 70 75 80
 248 Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala
 249 85 90 95
 250 Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp
 251 100 105 110
 252 Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu
 253 115 120 125
 254 Gly Pro Pro Ala
 255 130
 258 <210> SEQ ID NO: 7
 259 <211> LENGTH: 3058
 260 <212> TYPE: DNA
 261 <213> ORGANISM: Mycobacterium tuberculosis
 263 <220> FEATURE:
 264 <223> OTHER INFORMATION: MTB39 (TbH9) cDNA full-length
 266 <400> SEQUENCE: 7
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 268 ggcataccca gagatgttgg cggcgccggc tgacaccctg caagacatcg gtgttaccac 120
 269 tggcttagc aatgccgtg cggcgcccc gacgactggg gtgggtgcccc ccgctgccc 180
 270 tgagggtgtcg gcgtgtactg cggcgtactt cgccgcacat gccgcgtatgt atcagtccgt 240
 271 gagcgctcggt gctgtgcga ttcatgacca gttcggtggcc acccttgcca gcaagcgccag 300
 272 ctcgttatgct gccactgaag tcgccaatgc ggcggcgcc agctaagcca ggaacagtcg 360
 273 gcacgagaaa ccacgagaaa tagggacacg taatggatgga tttcgccccg ttaccaccgg 420
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 277 cctcgccgtt tggcggtgg atgagctca ccgcggggca ggccgagctg accggccccc 660
 278 aggtccgggt tgctcggtcg gcctacgaga cggcgatgtt gctgacgtgt ccccccgggg 720
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 280 acaccccgcc gatcgccgtc aacgaggccg aatacggcga gatgtggggcc caagacgccc 840
 281 ccgcgttgtt tggctacgccc gcggcgacgg cgacggcgac ggcgacgttg ctggccgtcg 900
 282 aggaggcgcc ggagatgacc agcgcgggtg ggctcctcga gcaggccgccc gcggtcgagg 960

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<210> SEQ ID NO 25
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<213> ORGANISM: Mycobacterium tuberculosis
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<223> OTHER INFORMATION: MTB39 (TbH9) cDNA
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cccggcgtac gcggtcaacg agggcgaata cggcgagatg tgggccaag acgcccgcgc 240
gatgtttggc tacgcccggc cgacggcgc ggcgacggcg acgttgctgc cgttcgagga 300
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gaccaactcg ggtgtgtcga tgaccaacac cttgagctcg atgttgaagg gctttgtcc 600
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gctgggcagc tcgttgggtt ctgcgttgc gggcggtgg gttggcccca acttgggtcg 720
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gaacggtgtt ccggcgtaag gtttacccccc gtttcttgg gtcggtaac ttctgtcaacg 840
gaaacagttt c 851

) see
P. 8 for

err
explanator

<210> SEQ ID NO 26
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<212> TYPE: PRT
<213> ORGANISM: Mycobacterium tuberculosis
<220> FEATURE:
<223> OTHER INFORMATION: MTB39 (TbH9)
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35 40 45
Ile Ala Thr Asn Leu Leu Gly Gln Asn Thr Pro Ala Ile Ala Val Asn
50 55 60
Glu Ala Glu Tyr Gly Glu Met Trp Ala Gln Asp Ala Ala Ala Met Phe
65 70 75 80
Gly Tyr Ala Ala Ala Thr Ala Thr Ala Thr Ala Thr Leu Leu Pro Phe
85 90 95
Glu Glu Ala Pro Glu Met Thr Ser Ala Gly Gly Leu Leu Glu Gln Ala
100 105 110
Ala Ala Val Glu Glu Ala Ser Asp Thr Ala Ala Ala Asn Gln Leu Met
115 120 125
Asn Asn Val Pro Gln Ala Leu Lys Gln Leu Ala Gln Pro Thr Gln Gly
130 135 140
Thr Thr Pro Ser Ser Lys Leu Gly Leu Trp Lys Thr Val Ser Pro
145 150 155 160
His Arg Ser Pro Ile Ser Asn Met Val Ser Met Ala Asn Asn His Met
165 170 175
Ser Met Thr Asn Ser Gly Val Ser Met Thr Asn Thr Leu Ser Ser Met
180 185 190
Leu Lys Gly Phe Ala Pro Ala Ala Ala Gln Ala Val Gln Thr Ala
195 200 205
Ala Gln Asn Gly Val Arg Ala Met Ser Ser Leu Gly Ser Ser Leu Gly

al
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210 215 220
Ser Ser Gly Leu Gly Gly Val Ala Ala Asn Leu Gly Arg Ala Ala
225 230 235 240
Ser Val Arg Tyr Gly His Arg Asp Gly Gly Lys Tyr Ala Xaa Ser Gly
245 250 255
Arg Arg Asn Gly Gly Pro Ala
260

see p. 8 for
error explanation

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/597,796B

DATE: 12/27/2002
TIME: 15:07:37

Error Explanation
Input Set : A:\14058905.app
Output Set: N:\CRF4\12272002\I597796B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 1460,1854
Seq#:11; N Pos. 30,33,2270
Seq#:17; N Pos. 497,500,1136,1445,1487,1509,1515...
Seq#:25; N Pos. 767
Seq#:26; Xaa Pos. 254

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/597,796B

DATE: 12/27/2002
TIME: 15:07:37

Input Set : A:\14058905.app
Output Set: N:\CRF4\12272002\I597796B.raw

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L:149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:1800
L:546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:2220
L:801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:480
L:811 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1080
L:817 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1440
L:818 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1500
L:1095 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:25
L:1095 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:25
L:1095 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:720
L:1139 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:26
L:1139 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:26
L:1139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:240
L:1194 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:27